

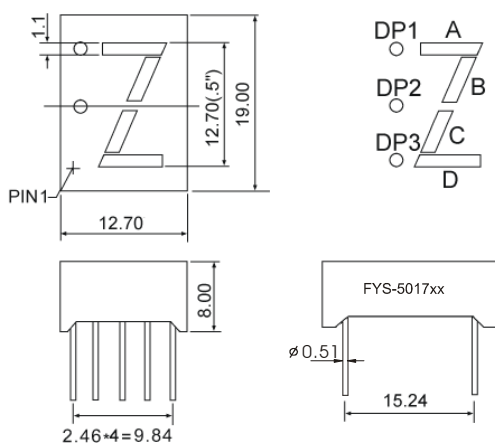


## DESCRIPTION

- 12.70 mm (0.5") Single digit numeric display series.
- Standard brightness.
- Low current operation.
- Excellent character apperance.
- Easy mounting on P.C.boards or sockets

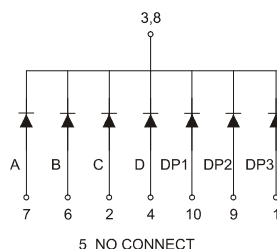
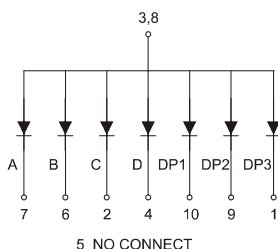
## Package Dimensions & Internal Circuit Diagram

### FYS-5017 Series



FYS-5017Ax

FYS-5017Bx



### Notes:

- All dimensions are in millimeters (inches)
- Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
- Specifaions are subject to change whitout notice.



**PartNO.: FYS-5017AX/BX-XX**

: Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Test Condition	Value		Unit
			Min	Max	
Reverse Voltage	VR	IR=30μA	5	-----	V
Forward Current	IF	-----	-----	30	mA
Power Dissipation	Pd	-----	-----	100	mW
Pulse Current	Ipeak	Duty=0.1mS, 1KHz	-----	150	mA
Operating Temperature	Topr	-----	-40	+85	° C
Storage Temperature	Tstr	-----	-40	+85	° C

■ **Description:**

• Color Code & Chip characteristics: (Test Condition: IF=20mA)

Emitting Color		Dice Material	Peak Wave Length (λ <sub>P</sub> )	Spectral Line halfwidth(Δλ <sub>1/2</sub> )	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:ucd
					Typ	Max	
H	Red	GaP/GaP	700nm	90nm	2.25	2.50	500
S	Hi Red	GaAlAs/GaAs,SH	660nm	20nm	1.85	2.20	3500
D	Super Red	GaAlAs/GaAs,DH	660nm	20nm	1.85	2.20	6000
UR	Ultra Red	GaAlAs/GaAs,DD H	660nm	20nm	1.85	2.20	12000
E	Orange	GaAsP/GaP	635nm	35nm	2.10	2.50	2500
Y	Yellow	GaAsP/GaP	585nm	35nm	2.10	2.50	2000
G	Green	GaP/GaP	570nm	30nm	2.20	2.50	2500

• -XX: Surface / Lens color:

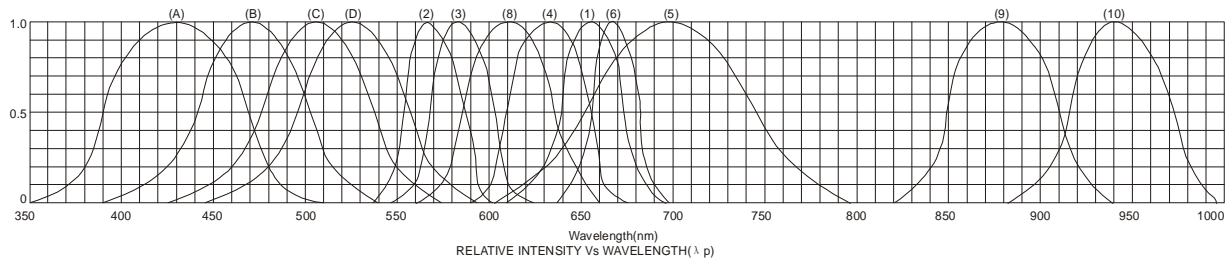
Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	



NINGBO FORYARD OPTO  
ELECTRONICS CO.,LTD.

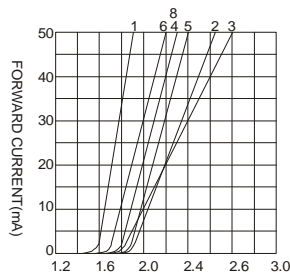
# LED DIGIT DISPLAY

PartNO.: **FYS-5017AX/BX-XX**

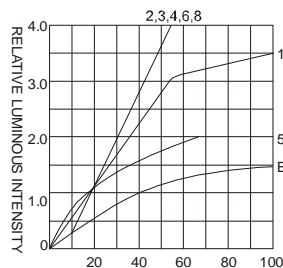


- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red

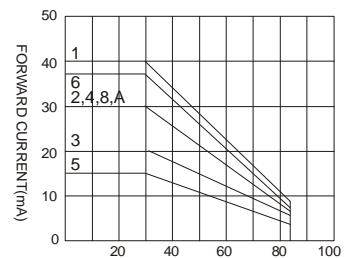
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) - GaN/SiC 430nm/Blue
- (B) - InGaN/SiC 470nm/Blue
- (C) - InGaN/SiC 505nm/Ultra Green
- (D) - InGaAl/SiC 525nm/Ultra Green



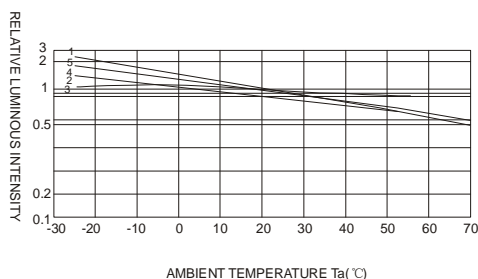
FORWARD VOLTAGE (Vf)  
FORWARD CURRENT VS.  
FORWARD VOLTAGE



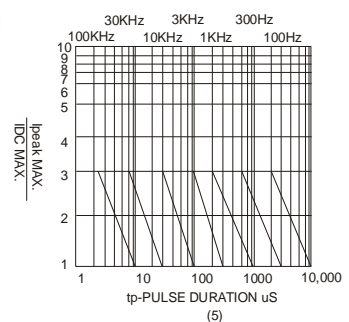
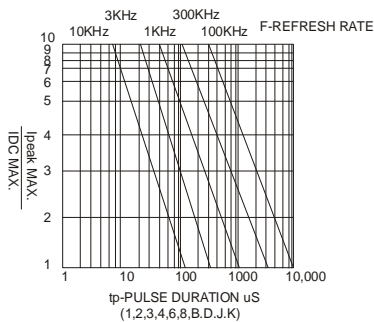
FORWARD CURRENT (mA)  
RELATIVE LUMINOUS  
INTENSITY VS. FORWARD  
CURRENT



AMBIENT TEMPERATURE Ta (°C)  
FORWARD CURRENT VS. AMBIENT  
TEMPERATURE



AMBIENT TEMPERATURE Ta (°C)



NOTE: 25°C free air temperature unless otherwise specified

ADD: NO.115 QiXin Road NingBo Zhejiang China ZIP.: 315051

TEL: 0086-574-87927870 87933652

[Http://www.foryard.com](http://www.foryard.com)

FAX: 0086-574-87927917

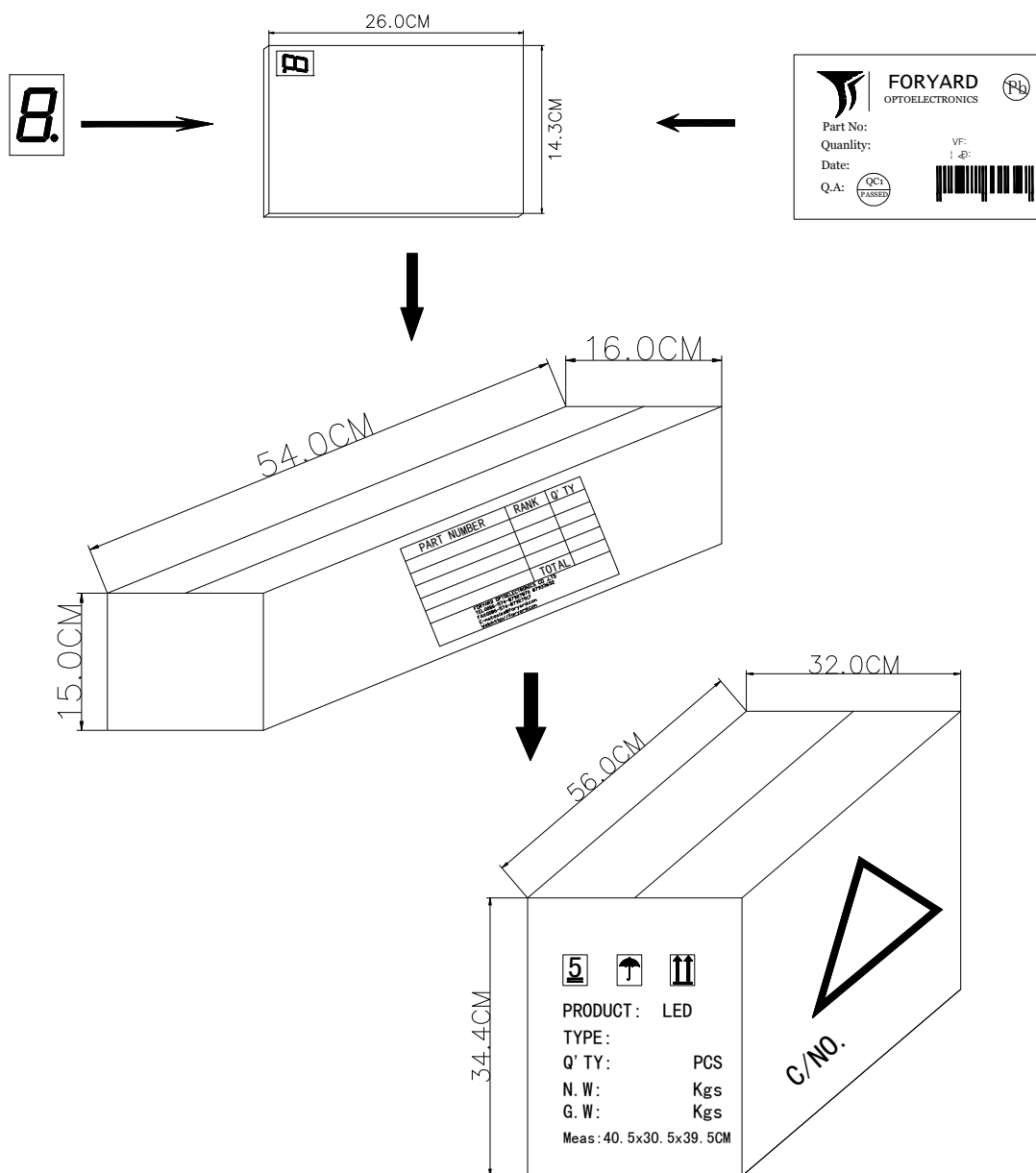
E-mail: sales@foryard.com



NINGBO FORYARD OPTO  
ELECTRONICS CO.,LTD.

# LED DIGIT DISPLAY

PartNO.: FYS-5017AX/BX-XX



tapy	QTY/foam(pcs)	QTY /Bundle (pcs)	QTY /CARTONDimension
FYS-5017A/Bx-xx	8*10=80	80*16=1280	1280*4=5120

ADD: NO.115 QiXin Road NingBo Zhejiang China ZIP.: 315051

TEL: 0086-574-87927870 87933652

[Http://www.foryard.com](http://www.foryard.com)

FAX:0086-574-87927917

E-mail:sales@foryard.com